

Balandin, A. A. and Marushkin, M. N.
FORMATION OF OLEFINS FROM HIGHER PARAP-
FINS. [1961] 5p. 9 refs.
Order from OTS or SLA \$1.10 61-16928

Trans. of Akademiya Nauk SSSR. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,
1943, v. 40, p. 254-256.

DESCRIPTORS: Ethylenes, Synthesis, Hydrocarbons,
Decomposition, Waxes, Catalysts.

In a preliminary study catalytic cracking of paraffin
wax in the presence of a mixed chromium catalyst gave
results showing that at 450-500° dehydrogenation to
olefins definitely predominates over other reactions of
paraffin wax hydrocarbons under the conditions used.
(Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16928

I. Balandin, A. A.
II. Marushkin, M. N.

1961

Office of Technical Services

61-16914

Lieberman, A. L. and Kazanskil, B. A.
DIRECT SYNTHESIS OF OLEFINS WITH A QUATER-
NARY CARBON ATOM WITH THE AID OF ORGAN-
OMAGNESIUM COMPOUNDS. [1961] 4p. 17 refs.
Order from OTS or SLA \$1.10 61-16914

Trans. of Akademiya Nauk SSSR. *Comptes Rendus*
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,
1943, v. 47, p. 402-404.

DESCRIPTORS: Ethylenes, Synthesis, Grignard re-
actions, *Hexanes, Methyl radicals, *Cyclohexenes,
Magnesium compounds, Chlorides.

On the example of the synthesis of 4,4-dimethyl-1-
hexene from tertiary amylmagnesium chloride and
allyl chloride it was shown that the latter can,
similarly to allyl bromide and allyl iodide, be em-
ployed for direct preparation of olefins with a tertiary
carbon atom by the methods of Grignard and Wurtz.

(Chemistry--Organic, TT, v. 6, no. 7)

(over)

I. Lieberman, A. L.
II. Kazanskil, B. A.

Office of Technical Services

Balandin, A. A., Marukyan, G. M., and
Seimovich, R. G.
CATALYTIC DEHYDROGENATION OF p-CYMENE.
[1961] 4p. 15 refs.
Order from OTS or SLA \$1.10 61-16920

Trans. of Akademiya Nauk SSSR. Comptes Rendus
(Mém. de l'Académie des Sciences de l'U. R. S. S.,
1962, v. 41, p. 71-73.

DESCRIPTORS: Cymenes, Dehydrogenation,
Catalysis.

Introduction of two methyl groups into the molecule of
ethylbenzene, one attached to the ring and the other
placed in the side chain in α -position, facilitates de-
hydrogenation. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16920

I. Balandin, A. A.
II. Marukyan, G. M.
III. Seimovich, R. G.

Office of Technical Services

Selection of a New Standard of Length, by
L. B. Ponizovskiy, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLI, No 4,
1943, pp 166-168.

*ACSI I-8298
ID 2224778

Sci - Engr

27 Feb 63

A Contribution to the Theory of Long Waves,
by M. A. Lavrent'ev , 3 pp.

RUSSIAN, pwr, ~~Acad~~ Dok Ak Nauk SSSR, Vol. XLI,
1943, pp 275-277.

Amer Math Soc No 102, Pt 2
Sci Ma Lib No 54/2908
IT 4/6

Scientific - Physics

Nov 1954 CTS

19, 694

Rozen, A. M.

ADSORPTION FROM SOLUTION UNDER HIGH
PRESSURE. [1962] [1]p. 4 refs.

Order from OTS or SLA \$1.10

62-16765

Trans. of Akademiya Nauk SSSR. Doklady, 1943,
v. 41, no. 7, p. 310-311.

DESCRIPTORS: *Acetic acids, Solutions, *Adsorption,
High pressure research.

(Chemistry--Physical, TT, v. 9, no. 3)

62-16765

I. Rozen, A. M.

Office of Technical Services

Perfilov, V. A.
LA DESTRUCTION DE L'IMAGE LATENTE DES
TRACES DE PARTICULES ALPHA DANS L'EMUL-
SION DES PLAQUES PHOTOGRAPHIQUES (Destruction
of α -Particle Tracks in Photographic Layer). 5p.
Order from OTS, ETC or CNRS \$0.80 62-26502

Trans. in French of Akademiya Nauk SSSR. Doklady.
1944, vol. [42] no. 6, p. 258-261.

DESCRIPTORS: *Photographic emulsions, Photographic
plates, *Alpha particles, Tracking, Optical images,
Demolition, Oxidation, *Polonium.

(Materials--Photographic, TT, v. 10, no. 9)

62-26502

- I. Perfilov, N. A.
- II. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Sound Propagation in a Turbulent Atmosphere,
by V. ~~Kozlov~~ ~~Il'inskiy~~.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVII, No 7,
1945, pp 486-489.
NASA TT F-9062

Sci-Ear Sci & Ast ron
Oct 64
U.S. GOVERNMENT ONLY

267,571

(NY-4841)

Results of Measuring the ~~EXPER~~ Detonation Velocity
of Methyl Nitrate, by S. S. Ratner, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLII, No 6,
1944, pp 276-278.

JPRS 7313

Sci - Chem

Jan 61

138,722

Electronic Instruments With Effective Emitters of
Secondary Electrons, by R. M. Aranovich, 15 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol VIII, No 6,
1944, pp 346-351.

SLA R-1111

Sci
May 58

63,787

(NY-4841)

Types of Kinetic Curves of Chain Reactions, by
M. N. Semenov, 10 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIII, No 8,
1944, pp 360-366.

JPRS 7311

Sci - Chem

Jan 61

138,725

(NY-4841)

Calculations of the Lower Limit of Hydrogen
Ignition as a Function of Temperatures From
Spectroscopic Measurements of the Hydroxyl Group,
by V. Kondrat'yey, 9 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIV, No 1,
1944, pp 21-26.

JPRS 7312

Sci - Chem

Feb 61

139, 254

NY/
(~~88~~-4841).

Types of Kinetic Curves of Chain Reactions. II.
Calculating the Interaction of Active Particles,
by M. N. Semenov, 12 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIV, No 2,
1944, pp 68-73.

JPRS 7509

137,682

USSR
Sci - Chem
24 Jan 61

Chel'tsova, M. A. and Petrov, A. D.
ISOMERIZATION OF 1-HEXENE TO TETRAMETHYL-
ETHYLENE. [1961] 3p. 12 refs.
Order from OTS or SLA \$1.10

61-18175

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,
1944, v. 44, p. 152-153.

DESCRIPTORS: *Cyclohexenes, Ethylenes, Methyl
radicals, Molecular isomerism.

Isomerization of 1-hexene to tetramethylethylene was
achieved at 375°C in the presence of zinc chloride on
pumice promoted by hydrogen chloride. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18175

I. Chel'tsova, M. A.
II. Petrov, A. D.

61-18175

Office of Technical Services

(NY-4841).

Types of Kinetic Curves of Chain Reactions, III.
Calculating the Cleavage of Chains on the Walls of a
Container Using the Oxidation of Hydrogen as an
Example, by N. N. Semenov, 10 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIV, No 6,
1944, pp 265-269.

JPRS 7510

Sci - Chem
24 Jan 61

137,683

Pigulevskii, G. V. and Ryskalchuk, A. T.
RAMAN SPECTRA OF FRACTIONS OF TURPENTINE
FROM PINUS SILVESTRIS. [1961] 3p. 8 refs.
Order from OTS or SLA \$1.10 61-18167

Condensed trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U.R.S.S., [1944] v. 44, no. 9, p. 372-374.

DESCRIPTORS: *Turpentine, Fractionation, Raman
spectroscopy, Spectrographic analysis.

Turpentine from Pinus silvestris was fractionated, and
six fractions subjected to Raman spectroscopic analysis.
A comparison of the data obtained with those reported
in the literature indicates the presence of α -pinene,
 Δ^3 -carene, β -carene and a laevorotatory form of Δ^3 -
carene. Evidence that terpinolene and χ -limonene are
present in Russian turpentines is also cited. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18167

I. Pigulevskii, G. V.
II. Ryskalchuk, A. T.

Office of Technical Services

Postovskii, I. Ya., Bednyagina, N. P., and
Mikhailova, M. A.

SULFUR COMPOUNDS IN PETROLEUM. [1961] 4p.
13 refs.

Order from OTS or SLA \$1.10

61-18166

Condensed trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U.R.S.S., 1944, v. 44, p. 375-377.

DESCRIPTORS: *Petroleum, *Sulfur compounds,
Chromatographic analysis, Thiophenes, Determination.

A chromatographic study of three Ural high sulfur oils
points to thiophenes being formed by decomposition of
more complex sulfur compounds during the distillation
of the oil, but not as a result of synthetic processes. At
least two classes of complex sulfur compounds exist,
distinguished by pronounced differences in their desorp-
tion from silica gel by washing with cold petroleum
ether. Those decomposing to thiophenes are easily re-
(Chemistry--Analytical, TT, v. 6, no. 7) (over)

61-18166

I. Postovskii, I. Ya.
II. Bednyagina, N. P.
III. Mikhailova, M. A.

Office of Technical Services

Zelinskii, N. D. and Arbuzov, Yu. A.
CONTACT ISOMERIZATION OF CYCLOHEPTENE.
[1961] Sp. 13 refs.
Order from OTS or SLA \$1.10

61-18165

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,
1944, v. 45, p. 19-21.

DESCRIPTORS: *Cycloheptenes, *Molecular isomerism,
Hydrocarbons.

Isomerization of cycloheptene was effected at 400° and
a rate of flow of 5 g per hour through a reaction tube
15 mm in internal diameter, in which a 50-cm long
layer of silica gel was contained. Data obtained upon
hydrogenation of the product revealed that the principal
product was a mixture of cyclopentene derivatives
among which the 1, 2-dimethyl derivative prevailed.
Formation of 1-methylcyclohexene as an intermediate
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18165

1. Title: Contact conversion
1. Zelinskii, N. D.
11. Arbuzov, Yu. A.

181797

Office of Technical Services

Maslyanskii, G. N.
DESULFURIZATION OF GASOLINE ON A NICKEL
CATALYST. [1961] 5p. 10 refs.
Order from OTS or SLA \$1.10

61-18164

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,
1944, v. 45, p. 24-26.

DESCRIPTORS: *Gasoline, Nickel catalysts,
Desulfurization, Fuels.

It was attempted to effect desulfurization of straight run
gasoline with end point 115°C and a sulfur content of
0.12-0.29% at 200°C, 10 atm hydrogen pressure, a
space velocity of 2 and a ratio of hydrogen to gasoline
of 6:1. At the lowest of the indicated sulfur contents
the catalyst was stable and the sulfur reduced to 0.01%
within 30 hours. With a higher content of sulfur the
nickel catalyst became poisoned. With a higher ratio
(Materials--Fuels, TT, v. 6, no. 7) (over)

61-18164

1. Maslyanskii, G. N.

101790

Office of Technical Services

(NY-4841)

Basic Principles for the Theoretical Calculation
of the Work of an Explosion, by A. F. Belyayev,
5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLV, No 4,
1944, pp 164-166.

JPRS 7310

Sci - Chem

Jan 61

138,713

Chirkov, N.
OXIDATION OF GASEOUS HYDROCARBONS.
I. CATALYTIC ACTION OF WATER VAPOR IN
THE OXIDATION OF ETHANE. [1961] [2]p. 3 refs.
Order from OTS or SLA \$1.10 61-18197

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Académie des Sciences de l'U. R. S. S.,
1944, v. 45, p. 244-247.

DESCRIPTORS: *Hydrocarbons, Oxidation, *Ethanes,
Catalysts, Water vapor, Chemical reactions.

In the oxidation of ethane in stoichiometric proportions
with oxygen the reaction rate at a temperature of 466
and 485°C depends upon the quantity of the substance
that has reacted and upon the quantity of water vapour
added. It is impossible to explain the acceleration of
the reaction by the catalytic action of water alone,
some kind of intermediate products exist that cause the
(Chemistry--Organic, IT, v. 6, no. 7) (over)

61-18197

I. Chirkov, N.
II. Title: Catalytic...

181897

Office of Technical Services

Pigulevskii, V. V. and Il'ina, S. I.
RATE OF ABSORPTION OF ETHYLENE BY SUL-
FURIC ACID AT AN ELEVATED TEMPERATURE
AND CONSTANT ABSORPTION SURFACE. [1961] 2p.
2 refs.

Order from OTS or SLA \$1.10

61-18196

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Académie des Sciences de l'U.R.S.S.,
1944, v. 45, p. 331-333.

DESCRIPTORS: *Sulfuric acid, *Ethylenes, Absorption.

Experiments are reported showing that at constant ab-
sorption surface the quantity of ethylene absorbed per
unit time by 95 per cent sulfuric acid at 70°C is pro-
portional to its partial pressure within 30 and 600 mm
at a given degree of saturation of the acid. At a con-
stant contact period the ratio of the initial partial pres-
sure of ethylene to the final and, consequently, the ex-
tent to which ethylene reacts, remains constant and
(Chemistry--Physical, TT, v. 6, no. 7) (over)

61-18196

I. Pigulevskii, V. V.
II. Il'ina, S. I.

181801

Office of Technical Services

(NY-4847).

Explosive Properties of 'Gasless' Systems, by ~~XXXXXXXXXX~~
A. F. Belyayev, A. B. Malbandyan, 9 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVI, No 3,
1945, pp 113-116.

JPRS 7522

Sci - Chem
24 Jan 61

137,684

Zelinskii, N. D., Arbuzov, Yu. A., and Batuev, M. I.
CONTACT ISOMERIZATION OF 1-OCTENE AND
INVESTIGATION OF THE ISOMERIZATION PROD-
UCTS BY THE COMBINATION SCATTERING SPEC-
TRAL METHOD. [1961] 6p. 8 refs.
Order from OTS or SLA \$1.10

61-18198

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,
1945, v. 46, p. 150-153.

DESCRIPTORS: *Octenes, Molecular isomerism,
Catalysis, Spectrographic analysis, Hydrocarbons.

Isomerization of 1-octene was studied at 450° in the
presence of beryllium oxide and at 400° in the presence
of silica gel. In the first case methylheptenes were
mainly formed. These were hydrogenated and the prod-
uct subjected to Raman spectroscopy, whereby
4-methylheptane, 3-methylheptane and some 2-methyl-
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18198

I. Zelinskii, N. D.
II. Arbuzov, Yu. A.
III. Batuev, M. I.

18198

Office of Technical Services

7-7-61

62-10782

[TRANSACTIONS (REPORTS) OF THE ACADEMY OF SCIENCES OF THE USSR] 1945, VOL. 46, NO. 7: [PARTIAL TABLE OF CONTENTS AND SELECTED ABSTRACTS]. [1962] 4p. 5 refs.

Order from OTS or SLA \$1.10

62-10782

Abstract trans. of [Akademiya Nauk SSSR]. Comptes Rendus (*Doklady*) de l'Academie des Sciences de l'U.R.S.S., 1945, v. 46, no. 7, p. 283-286 and 296-298.

DESCRIPTORS: *Activated carbon, *Charcoal, Adsorption, Microstructure, Fatty acids, *Methanols, Rubber, *Plants, Kok-saghyz, Physiology.

Contents:

Sorption and heats of sorption of vapors and the structure of activated charcoal, by A. V. Kiselev and others

(Chemistry, IT, v. 8, no. 7)

(over)

Office of Technical Services

62-10783

[TRANSACTIONS (REPORTS) OF THE ACADEMY
OF SCIENCES OF THE USSR] 1945, VOL. 46,
NO. 8: [TABLE OF CONTENTS AND SELECTED
ABSTRACT]. [1962] 2p.
Order from OTS or SLA \$1.10 62-10783

Abstract trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U.R.S.S., 1945, v. 46, no. 8, p. 325-327.

DESCRIPTORS: *Acetyl radicals, *Chlorides, *Cel-
lulose, Acetylation, Abstracting.

Contents:

A new method of acetylation of cellulose with acetyl
chloride, by P. V. Popov.

(Chemistry--Organic, TT, v. 8, no. 6)

Office of Technical Services

Chirkov, N.
OXIDATION OF [GASEOUS] HYDROCARBONS.
II. OXIDATION OF ETHANE AT TEMPERATURES
ABOVE 600° C. [1961] [2]p. 3 refs.
Order from OTS or SLA \$1.10 61-18241

Trans. of [Akademiya Nauk SSSR]... Comptes Rendus
(Ouklady) de l'Academie des Sciences de l'U. R. S. S.,
1945, v. 46, p. 368-369.

DESCRIPTORS: *Hydrocarbons, *Ethanes, Oxidation,
Water vapor, Catalysts.

The induction period in oxidation of ethane was studied.
Below 600° water vapor catalyzes oxidation of ethane,
but not above this temperature. At 630° C and pres-
sures of 100-500 mm mercury the induction period of
oxidation of ethane was not affected by 3.6% water.
(Author) (See also 61-18197)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18241

I. Chirkov, N.
II. Title: Oxidation of Ethane.

Office of Technical Services

Investigation of the Detonation of Condensed Explosives,
by L. D. Landau, K. P. Stanyukovich, 7 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVI, No 9,
1945, pp 399-402. 9692121
FTD-TT-63-1112

Sci - Phys
Apr 64

253,433

62-10784

[TRANSACTIONS (REPORTS) OF THE ACADEMY
OF SCIENCES OF THE USSR] 1945, VOL. 47,
NO. 1: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 2p.

Order from OTS or SLA \$1.10

62-10784

Abstract trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U. R. S. S., 1945, v. 47, no. 1, p. 28-30 and 43-48.

DESCRIPTORS: *Geophysical prospecting, Rock,
Thermal conductivity, *Manganese, Ores, Deposits,
*Iron, *Nickel, *Cobalt, Abstracting

Contents:

Thermal method of prospecting vs. gravitational and
electrical methods, by S. S. Kovner and

B. L. Shneerson

(Earth Sciences--Geology, TT, v. 8, no. 6) (over)

Office of Technical Services

Zhurkov, S. N. and Lerman, R. I.
INFLUENCE OF THE VOLUME SORPTION OF
VAPOURS ON THE SOLIDIFICATION TEMPERATURE
OF POLYMERS. [1961] 2p. 7 refs.
Order from OTS or SIA \$1.10

61-18245

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,
1945, v. 47, p. 106-109.

DESCRIPTORS: *Polymers, Hardening, Vapors,
Adsorption, Butenes, Butadienes, Acrylic resins,
Acrylonitriles.

In view of the effect that the non-polymerized low-mo-
lecular fraction of products of polymerization and
plasticizing substances exert on the transition from a
rubber-like to a glass-like state, experiments were
carried out with various volatile organic solvents intro-
duced into the polymers of butadiene and isobutene and
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18245

I. Zhurkov, S. N.
II. Lerman, R. I.

181815

Office of Technical Services

Yurzhenko, A. and Kolehkova, M.
ON THE TOPOGRAPHY OF THE POLYMERIZATION
OF HYDROCARBONS IN EMULSIONS. [1961] 2p.
13 refs.

Order from OTS or SLA \$1.10

61-18244

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,
1945, v. 47, p. 348-350.

DESCRIPTORS: *Hydrocarbons, *Polymerization,
Butadienes, Colloids.

A series of polymerization reactions were carried out
with 1, 3-butadiene in the presence of various emulsi-
fying agents and diazoaminobenzene as a catalyst. The
rate of polymerization increased considerably when the
concentration of the emulsifying agent increased, even
within the concentration limits within which the surface
activity of the latter remains practically constant. The

(Chemistry--Organic, TT, v. 6, no. 7)

(over)

61-18244

I. Yurzhenko, A.
II. Kolehkova, M.

Office of Technical Services

Bresler, S. E.
PHENOMENON OF THE LOWER LIMIT IN THE
LOW-TEMPERATURE POLYMERIZATION OF HYDRO-
CARBONS. [1961] [1]p.
Order from OTS or SLA \$1.10

61-18243

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Académie des Sciences de l'U. R. S. S.,
1945, v. 47, p. 410-411.

DESCRIPTORS: *Hydrocarbons, *Polymerization,
*Butenes, *Butadienes, Temperature, Polymers.

The autoacceleration of the polymerization of isobutene
in the presence of boron fluoride is a chain process in-
volving a phenomenon of explosion-like nature occur-
ring at -100°C . Observations on the polymerization of
1,3-butadiene and of isoprene with boron fluoride show
that a critical initial temperature exists which is the
exact equivalent of the lower limit of the chain explo-
sions. For butadiene the critical temperature is -76°C
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18243

L. Bresler, S. E.

181816

Office of Technical Services

NAN

Vol 47, pp 430-4 (1945)

Kinetics of Catalytic Processes on Highly
Nonuniform Surfaces

S.A. Roginski

Will be
added by Def Res Bd,
Canada
See 1 Aug 45 listing

62-10788

[TRANSACTIONS (REPORTS) OF THE ACADEMY OF SCIENCES OF THE USSR] 1945, VOL. 47, NO. 7: [TABLE OF CONTENTS AND SELECTED ABSTRACTS]. [1962] 2p. 1 ref.
Order from OTS or SLA \$1.10

62-10788

Abstract trans. of [Akademiya Nauk SSSR]. Comptes Rendus (Doklady) de l'Académie des Sciences de l'U.R.S.S., 1945, v. 47, no. 7, p. 472-477 and 494-496.

DESCRIPTORS: *Diethyl ethers, *Ethanol, Chlorine compounds, *Polymers, Hardening, Molecular association, *Tin, *Minerals.

Contents:

Formation of β , β' -dichlorodiethyl ether in the synthesis of 2-chloroethanol, by E. Shilov
Molecular mechanism of the solidification of polymers. (Chemistry, TT, v. 8, no. 7) (over)

1. Title: Ghissar Range

Office of Technical Services

8-178/60

(NY-4834)

A Contribution to the Theory of the Detonation
Spin, by K. P. Shchelkin, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVII, No 7,
1945, pp 501-503.

JPRS 5824

Sci - Chem

Oct 60

129,082

Perfilov, N. A.

ENREGISTREMENT DE FRAGMENT'S D'URANIUM
AVEC SUPPRESSION DES TRACES DUES À DES
PARTICULES ALPHA ÉMISES PAR L'URANIUM
(Registration of Uranium Fragments with Removal of
Background Due to Alpha-Particles Emitted by
Uranium) Sp.

Order from OTS, ETC or CNRS \$0.80 62-26503

Trans. in French of Akademiya Nauk SSSR. Doklady,
1945, v. 47, no. 9, p. 623-626.

DESCRIPTORS: *Uranium, Determination, Alpha
particle reactions, Photographic emulsions,
Photographic plates, *Fission products, Oxidation.

(Nuclear Physics and Nuclear Chemistry, TT, v. 10,
no. 9)

62-26503

- I. Perfilov, N. A.
- II. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

DAN Vol 48, p 19-21, 1945

" Characteristics of the Spreading of
Atlantic Waters in the Polar Basin,"
V. B. Shokman

Available at NRL

62-17304

Ivanov, K. I. and Savinova, V. K.
DECAHYDRONAPHTHALENE PEROXIDE. [1962] 5p.
Order from ATS \$8.25 ATS-27N58R

Trans. of Akademiya Nauk SSSR. Doklady, 1945, v. 48,
no. 1, p. 32-35.

DESCRIPTORS: *Peroxides, *Naphthalenes, *Hydrogen,

I. Title: Decalin
I. Ivanov, K. I.
II. Savinova, V. K.
III. ATS-27N58R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

(Chemistry, TT, v. 8, no. 4)

Office of Technical Services

Euphausiids of the Sea of Japan Feeding on the
Copepoda, by L. A. Ponomareva.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVIII,
No 1, 1954, pp 153-154.

Dept of Interior
QLI E78 No 40

Sci - Biol

Oct 62

(SF-1157)

Calculation of the Characteristics of a Detonation
Wave, Stationarily Propagated in Condensed Explosives:
and the Equation of State of the Explosion
Products, by S. B. Ratner, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVIII, No 3,
1945, pp 198-201.

JPRS 4186

134,332

Sci - Phys
Dec 60

Spectroscopic Determination of Carbon in Irons and
in Steels, by O. V. Blank, and N. S. Sventitskiy.

RUSSIAN, Dok Ak Nauk SSSR, Vol XLVIII, No 4, 1945,
pp 269-272.

Brutcher Tr No 2468

Scientific - Min/Metals

\$2.40

14,801

Deryagin, B. and Pichugin, E.
A NEEDLE PROFILOMETER STUDY OF THE
OILINESS OF LUBRICANTS. [1961] 3p. 9 refs.
Order from OTS or SLA \$1.10 61-18352

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,
1945, v. 48, p. 259-262.

DESCRIPTORS: *Lubricants, Lubrication, *Oils,
Greases, Viscosity.

The wedging pressure exerted by a film of a lubricant
on two solid surfaces, between which it is formed, was
studied by a method based on the use of a needle
profilometer and involving determination with the aid
of a diamond needle of the apparent decrease in rough-
ness resulting from a metal surface being covered with
a layer of oil. Data for lubricating oils and other
(Materials--Lubricants, TT, v. 6, no. 10) (over)

61-18352

1. Title: Profilometer
- I. Deryagin, B.
- II. Pichugin, B.

187200

Office of Technical Services

The Limit Diameter of a Charge of Ammonium
Nitrate, by A. F. Belayev, Y. B. Chariton, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVIII,
No 4, 1945.

Available
in English
at LC

Sci

Aug 60

121,702

61-18349

Balandin, A. A. and Marukyan, G. M.
PRODUCTION OF α -METHYLSTYRENE BY CATALYTIC
DEHYDROGENATION OF ISOPROPYL-BENZENE.

[1961] 3p. 2 refs.

Order from OTS or SLA \$1.10

61-18349

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Académie des Sciences de l'U. R. S. S.,
1945, v. 48, p. 482-483.

DESCRIPTORS: *Styrenes, *Methyl radicals, Synthesis,
*Cumenes, Dehydrogenation, *Chromium compounds,
*Oxides, Catalysts, Catalysis, Propyl radicals,
Benzenes.

Catalytic dehydrogenation of isopropylbenzene to
 α -methylstyrene on catalysts such as promoted chromium
oxide occurs at a higher rate than of ethylbenzene to
styrene under comparable conditions. The yield
(Chemistry--Organic, TT, v. 6, no. 10) (over)

I. Balandin, A. A.
II. Marukyan, G. M.

Office of Technical Services

62-10791

[TRANSACTIONS (REPORTS) OF THE ACADEMY OF
SCIENCES OF THE USSR] 1945, VOL. 49, NO. 4:
[TABLE OF CONTENTS AND SELECTED ABSTRACTS].
[1962] 3p. 4 refs.

Order from OTS or SLA \$1.10

62-10791

Abstract trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U. R. S. S., 1945, v. 48, no. 7, p. 491-493 and
496-501.

DESCRIPTORS: Abstracting, *Natural gas, Deposits,
*Minerals, Lakes, *Tungsten, *Molybdenum, Geol-
ogy, Carbonates, Sulfates.

Contents:

Natural gases of bottom deposits of mineral lakes, by

A. I. Dzhen-Litovskii

(Earth Sciences--Geology, TT, v. 3, no. 6) (over)

Office of Technical Services

Andreev, K. K. and Bakeev, A. P.
AU SUJET DE LA RELATION EXISTANT ENTRE LA
VITESSE DE COMBUSTION DES POUDRES SANS
FUMÉE ET LA PRESSION (The Dependence of the
Burning Velocity of Smokeless Powders on the Pressure)
Sp. 5 refs.

Order from OTS, ETC or CNRS \$0.80 62-26505

Trans. in French of Akademiya Nauk SSSR. Doklady,
1945, v. 48, p. 567-570.

DESCRIPTORS: *Smokeless propellants, *Combustion,
Velocity, Pressure, Nitroglycerin.

(Materials--Fuels, TT, v. 10, no. 9)

62-26505

- I. Andreev, K. K.
- II. Bakeev, A. P.
- III. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

62-10792

[TRANSACTIONS (REPORTS) OF THE ACADEMY OF
SCIENCES OF THE USSR] 1945, VOL. 48; NO. 9:
[TABLE OF CONTENTS AND SELECTED ABSTRACTS].
[1962] 2p. 2 refs.
Order from OTS or SLA \$1.10 62-10792

Abstract trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U. R. S. S., 1945, v. 48, no. 9, p. 641-643 and
648-650.

DESCRIPTORS: Oxidation, *Allyl radicals, *Alcohols,
*Acroleins, Distribution, *Lead, *Soils.

Contents:

Oxidation of allyl alcohol to acrolein, by P. V.
Zimakov and V. A. Pokrovskii
Distribution of lead in soils, by S. I. Sinyakova.
(Chemistry, TT, v. 8, no. 6)

Office of Technical Services

AN , 1009, 1945

" Some Problems of Plastic States of
Plane Stress "

Done in G. B. by AC SIL (Admiralty)

49/4659

P 21548T

(NY-4847).

Disturbance of the Ignition Limits of Carbon
Monoxide With Small Additions of Hydrogen, by V. N.
Kondrat'yev, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIX, No 1,
1945, pp 38-40.

JPRS 7563

USSR
Sci - Chem
24 Jan 61

137,691

62-10793

[TRANSACTIONS (REPORTS) OF THE ACADEMY OF
SCIENCES OF THE USSR] 1945, VOL. 49, NO. 1:
[TABLE OF CONTENTS AND SELECTED ABSTRACTS].
[1962] 2p.

Order from OTS or SLA \$1.10

62-10793

Abstract trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U. R. S. S., 1945, v. 49, no. 1, p. 43-49.

DESCRIPTORS: *Rock, Porosity, *Copper, Siberia,
Abstracting.

Contents:

Frequency distribution of porosity of coefficients and
epigenetic processes in spiriferous layers in the oil-
bearing region of Buguruslan, by A. B. Vistelyus
Native copper in the lava field of the Siberian platform,
by G. Moor.
(Earth Sciences--Geology, TT, v. 8, no. 6)

Office of Technical Services

(NY-4847).

Measurement of Ignition Limits by the Jet Method,
by V. Kondrat'yev, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIX, No 2, 1945,
pp 116-118.

JPRS 7564

Sci - Phys
24 Jan 61

137,690

62-10795

[TRANSACTIONS (REPORTS) OF THE ACADEMY OF
SCIENCES OF THE USSR] 1945, VOL. 49, NO. 3
[TABLE OF CONTENTS AND SELECTED ABSTRACTS]
[1962] 4p. 2 refs.

Order from OTS or SLA \$1.10

62-10795

Abstract trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U.R.S.S., 1945, v. 49, no. 3, p. 198-201 and
204-214.

DESCRIPTORS: *Polymers, Mechanical properties,
*Geology, Hydrology, Petroleum, Sources, Stability,
Abstracting.

Contents:

Influence of volume sorption on the mechanical prop-
ties of polymers, by S. N. Zhurkov
(Earth Sciences--Geology, TT, v. 8, no. 6) (over)

Office of Technical Services

62-10796

[TRANSACTIONS (REPORTS) OF THE ACADEMY
OF SCIENCES OF THE USSR] 1945, VOL. 49,
NO. 4: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 3p.
Order from OTS or SLA \$1.10 62-10796

Abstract trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (*Doklady*) de l'Academie des Sciences de
l'U.R.S.S., 1945, v. 49, no. 4, p. 265-268 and
273-276.

DESCRIPTORS: *Benzenes, Absorption spectra,
Silicon compounds, Dioxides, Gels, Adsorbents,
*Coal, Hydrocarbons, Physical chemistry, Chemis-
try, Abstracting.

Contents:

Absorption spectrum of benzene adsorbed on silica
(Chemistry--Physical, TT, v. 8, no. 7) (over)

Office of Technical Services

Modifications by Weathering in the Composition
Structure and Properties of the Lower Cretaceous
Gneiss by M. F. Tchourinov, 9 pp.

RUSSIAN, *Doklady Akad. Nauk SSSR*, Vol XLIX,
No 5, 1945, p 364-368.

SLA n 1621

Sci

Jul 58

68,814

Luchin, S. M.
ANALYSIS OF COMPLEX GAS MIXTURES WITH
M. L. VEINGEROV'S OPTIC-ACOUSTICAL GAS
ANALYZER. [1961] [3]p. 6 refs.
Order from OTS or SLA \$1.10

61-20134

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,
1945, v. 49, p. 418-420.

DESCRIPTORS: *Gases, Mixtures, *Optical analysis,
*Acoustics, Analysis, Sound.

(Physics, TT, v. 7, no. 7)

61-20134

1. Title: Veingerov's analyzer
1. Luchin, S. M

Office of Technical Services

62-10797

[TRANSACTIONS (REPORTS) OF THE ACADEMY OF
SCIENCES OF THE USSR] 1945, VOL. 49, NO. 7:
[TABLE OF CONTENTS AND SELECTED ABSTRACTS]
[1962] 2p.

Order from OTS or SLA \$1.10

62-10797

Abstracts trans. of [Akademiya Nauk SSSR]. Comptes
Rendus (Doklady) de l'Academie des Sciences de
l'U. R. S. S., 1945, v. 49, no. 7, p. 508-513.

DESCRIPTORS: *Bituminous surfacing, Asphalt, Hard-
ness, Temperature, Dolomite, Calcium compounds,
Oxides, *Additives, *Geological survey, Petroleum,
Geophysical prospecting, *Gases, *Oils.

Contents:

Influence of the components on the softening tempera-
ture of bituminous materials, by A. V. Solov'ev
(Earth Sciences--Geology, TT, v. 8, no. 6) (over)

Office of Technical Services

Effect of Promoters in Catalytic Dehydrogenation
of Alcohols I To Esters as Related to Their
Position in the Periodic Table, by S. L. Lel'chuk,
4 pp.

~~RUSSIAN~~ RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIX,
1945, pp 652-~~64~~ 654.

SLA 61-20135

Sci
Mar 62
Vol VII, No 3

188,106

Balandin, A. A. and Eydus, Ya. T.
ROLE OF THE PRINCIPLE OF CONSERVATION OF
THE VALENCE ANGLE IN THE MULTIPLET
THEORY OF CATALYSIS. [1961] [4]p. 22 refs.
Order from OTS or SLA \$1.10 61-20136

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) l'Academie des Sciences de l'U.R.S.S.,
1945, v. 49, p. 655-658.

DESCRIPTORS: *Valence, Theory, *Catalysis,
*Adsorption, Molecular association, Metals, Lattices,
Bonding, Stresses, *Heat of reaction, Hydrogenation,
Metallic crystals, Deformation.

(Chemistry--Physical, TT, v. 7, no. 6)

61-20136

1. Title: Chemisorption
- I. Balandin, A. A.
- II. Eydus, Ya. T.

Office of Technical Services

Effect of Surface-Active Substances on the
Coagulation of Aerosols, by I. S. Artemov.

RUSSIAN, per, Dok Ak Nauk USSR, Vol L, 1945.

AEC Tr 170

Sci Mus Lib 50/1870

Scientific - Chemistry, aerosols,
May CTS

14,551

On an Interpretation of a Space with Degenerate
Metric, by A. Norden.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol 50, 1945,
pp 57-60.

*AFCHL

Sci/Space Tech
Dec 68

Theory of the Ideal Cavitating Propeller, by V. M.
Lavrentiev. UNCLASSIFIED

RUSSIAN, per, Dok Ak Nauk SSSR, Vol L, 1945,
pp 89-93. _____

Navy Tr 1769/DTMB 279

Sci - Eng

Jul 58

66,383

Use of the Correlation Method of Refracted Waves
on the Eastern Part of the Apsheron Peninsula,
by G. A. Gamburgtsev, Yu. V. Rizinchenko, M. K.
Polshkov, E. V. Korus, A. M. Epinateva, I. P.
Kozminskaya.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol 1, 1945,
pp 163-165.

Univ of Wisconsin
(MSF)

Sci - Geophys
Apr 60

113,934

Determination of the Solubility of Calcite in Aqueous
Solutions, by E. B. Shternina

Full translation.

RUSSIAN, ~~XXXX~~ thrice-no per, Dok Ak Nauk SSSR,
Vol L, No 5, 1945, pp 261-264.

AEC Tr 1607

Scientific - Chemistry

Jun 53 OTB/DEX

Also Avail @ British Sci Mus No 52/1635
Bldg Res Sta Lib Com No 550

SLA 59-19090 3086

(NY-4847)

Detonation and Explosive Combustion of Explosives,
by A. Ya. Apin, 10 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol L, 1945,
pp 285-288.

JPRS 7523

Sci - Chem

Jan 61

138, 706

DAN

Vol 6, pp 289-91 (1945)

Effect of Surface-Active Substances on
the Coagulation of Aerosols

J. S. Artemov

AEC 21. # 170

RT-974

Avail @ Brookhaven

Also done in Canada - ID 661292

MA Ottawa R-288:50 19 Apr '50

Also avail @ Sci Mus. Lit - Br. Biot. # 50/1870

(NY-4847).

The Relationship of the Maximum Density of the
Explosives With the Value of the Charge Diameter,
by A. F. Belyayev, A. E. Belyayeva, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol I, 1945,
pp 295-297.

JPRS 7524

Sci - Phys
24 Jan 61

137,692

(NY-4847)

Effect of the Charge Casing
The Effect of the Charge Casing on the Stability
to Detonation and Its Action, by A. F. Belyayev,
A. E. Belyayeva, 8 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol L, 1945,
pp 299-301.

JPRS 7525

Sci - Chem

Jan 61

138,705

(NY-4847).

The Mechanism of the Genesis of Detonation of
Explosives Upon Impact, by A. F. Balyayev, V. K.
Bobolev, Ed Z. I. Ratner, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol I, 1945, pp
303-305.

JPRS 7526

Sci - Nuc Phys
24 Jan 61

137,689

DAN

Vol 50, pp 319-321 (1945)

Crystal Structure of [2- and 2-]
Naphthal

A.I. Kitaigorodskii

Done by Sci Mus Lib.
L.B. - # 50/1015

Vedeneva, N. E.
THE APPLICATION OF CHROMATOGRAPHIC
ADSORPTION TO THE ANALYSIS OF CLAYS. [1963]
Sp. 7 refs.
Order from OTS or SLA \$1.10

63-14606

Trans. of Akademiya Nauk SSSR, Doklady, 1945,
v. 50, p. 429-432.

DESCRIPTORS: *Clay, Adsorption, Dyes, Tests,
*Chromatographic analysis, *Clay minerals.

(Chemistry--Analytical, TT, v. 10, no. 7)

63-14606

I. Vedeneva, N. E.

Office of Technical Services

On the Surface Electrical Conductance of
Dielectrics, by N. N. Semenov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LI, No 1,
1945.

Available
in English
at LC

Sci

Aug 60

121,717

Oxidation of Nitrogen in Combustion and Explosion,
by Y. B. Zeldovich, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LI, No 3,
1945.

Available
in English
at LC

Sci

AUG 60

121, 716

Rate of Oxidation of Austenitic Fe-Cr-
Ni Alloy, by I. I. Kornilov and A. I.
Shpikel'man.

RUSSIAN, per, Doklady Akad Nauk SSSR,
1946, Vol 54, No 6, PP 515-518.

NIL 9022.09 1964 (3553) (On Loan)

Aug 65

286,950

Two Remarks on the Theory of a Rockets Motion, by
A. Yu. Ishlinskiy.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIII, No 7,
1946, pp 599-600.

1044

Navy 1986/T-51

OTS 59-11259

Sci - Space Research

Jan 59

79,881

Surface Radiating Systems, by Ya. N. Feld, 8 pp?
UNCLASSIFIED

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LI,
No 3, 1946, pp 199-202.

AMC F-TS-7681

Physics -
Sci - Technical - Radiating Systems
Mathematical

Heats of Isomerization of Aliphatic Hydrocarbons,
by M. V. Vol'kenshtein, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LI,
N 1946, pp 213-216.

SLA 61-20165

Sci
Mar 62
Vol VII, No 3

188,100

Highly Refractory Chrome-Dolomite Concrete and Brick,
by P. P. Budnikov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LI, No 8, 1946,
pp 615-617.

Brutcher Tr No. 2225

16,719

Scientific - Chemistry

\$2.80

Rate of Grain Growth in Recrystallization, by A. V. Belyustin.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LI, No 9, 1946.

Brutcher Tr No 2252

14,966

Scientific - Chemistry

\$1.20

Godnev, I. N. and Filatova, N. N.
EQUILIBRIUM CONSTANTS IN SUBSTITUTIONS OF
CHLORINE FOR HYDROGEN IN ETHYLENE. [1961]
[3]p. 24 refs.

Order from OTS or SLA \$1.10

61-20170

Reprint of Akademiya Nauk SSSR. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,
1946, v. 52, p. 43-46.

DESCRIPTORS: Chlorine, Hydrogen, *Ethylenes,
Chemical equilibrium, Substitution reactions, Vinyl
chlorides, Thermodynamics, Chlorine compounds,
Molecular structure, Energy, Enthalpy

(Unannounced)

61-20170

I. Godnev, I. N.
II. Filatova, N. N.

Office of Technical Services

Balandin, A. A. and Vasyunina, N. A.
INFLUENCE OF THE NATURE OF THE ASBESTOS
CARRIER ON THE ACTIVITY OF PLATINUM
CATALYSTS. [1961] [3]p. 20 refs.
Order from OTS or SLA \$1.10

61-20171

Reprint of Akademiya Nauk SSSR. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,
1946, v. 52, p. 139-142.

DESCRIPTORS: Platinum catalysts, Asbestos fiber,
Catalysts, Dehydrogenation, Catalysis, Reaction
kinetics

(Unannounced)

61-20171

I. Balandin, A. A.
II. Vasyunina, N. A.

Office of Technical Services

S-178/60

(SF-1064)

Theory of Detonation Spin, by Ya. B. Zel'dovich,
5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LII, No 2,
1946, pp 147-150.

JPRS 4077

Sci - Chem

OTS 61-20172

Oct 60

128,022

DAN Vol 52, p 311-14, 1946

"A Theory of Equatorial Counter-
Currents in the Ocean," V. B. Shtokman

Available at NRL

Promotion of Contacts by Means of Organometallic
Compounds, by G. M. Zhabrova, S. Z. Roginskiy,
E. A. Fokina, 3 pp.

RUSSIAN, per, 8 Dok Ak Nauk SSSR, Vol LII,
1946, pp 313-316.

SLA 61-20175

Sci
Mar 62
Vol VII, No 3

188,096

S-178/60

(SF-1064)

Normal Velocity and Character of "Burning" of
Some Compounds in the Category of Initiating
Explosives, by A. F. Belyayev, A. Ye. Belyayeva,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LII, No 6,
1946, pp 507-509.

JPRS 4080

Sci - Chem
Oct 60

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Generalized Equation of Chemical Kinetics and
Its Application to Reactions with Participation
of Solids, by B. V. Yerofeyev, 6 pp.

RUSSIAN, per, ~~Dok Ak Nauk~~, SSSR, Vol LII, No
No 6, 1946, pp 515-518.

ERDL, Ft Belvoir
T-1097

Sci
• Jun 61

158, 027

S-178/60

(SF-1064)

Heterogeneous Catalysis in Polymolecular Adsorption
Layers, by V. I. Gol'danskiy, N. N. Semenov, N. M.
Chirkov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LII, No 9,
1946, pp 783-785.

JPRS 4081:

Sci - Chem

128,424

Oct 60

The Bending of a Circular Plate With an Eccentric
Opening (Hole) by a Concentrated Force (Theory
of Elasticity), by E. V. Kudryavtsev. 8 pp

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LIII, No 2,
1946, pp 107-110. 9204995

AEU-SCL-Tr-456
also OTS-SCL-T-456

Sci - Engr

MApr 63

224856

DAN, Vol 53, p 327-29, 1946

"A Theoretical Explanation of Certain
Peculiarities of the Meridian Profile
of the Surface of the Pacific Ocean,"
V.B. Stakhman

Available at NRL

Evakhova, V. F.

STRUCTURE-FORMING MIGRATION OF REGENERATIVE MATERIAL IN THE HYDRA, tr. by Zaida D. Knowles. 12 Sep 51, 8p. (3 figs. omitted) 6 refs.

Order from OTS or SLA \$1.10

61-28013

Trans. of Akad[emiya] Nauk SSSR. (Doklady, 1946, v. 53, no. 4, p. 373-376.

DESCRIPTORS: Biology, *Regeneration, *Radiation effects, X-rays, Tissues (Biology), Cells (Biology), Mitosis, *Radiobiology.

Tests showed that a dose of 5,000 roentgens completely suppresses the regenerative capacity in peimatohydra oligactis on the ninth day after exposure. The sensitivity of P. oligactis to the effect of the roentgen rays depends on the time of year. In the fall of the year (Biological Sciences--General, TT, v. 7, no. 4) (over)

61-28013

- I. Evakhova, V. F.
- II. National Institutes of Health, Bethesda, Md.

Office of Technical Services

Ionization of Gases and Their Breakdown Strength,
by B. M. Gokhberg, E. Ya. Zandberg.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LIII, No 6,
1946, pp 515-518.

HL M. 3575

Sci - Phys

Jul 62

207,795

DAN ., Vol 53, No 6, 1946. p 519-22

"A Tentative Indirect Determination
of the Velocities of the Trade Winds
in the Central Pacific" / R
Stephenson

1946, p. 519-22